

HIGH-LINEARITY SWITCHED-RESISTOR NETWORK FOR PROGRAMMABILITY

ABSTRACT OF THE DISCLOSURE

A system (e.g., a programmable resistive device) including switches and resistors. Respective ones of each of the switches is connected in series with respective ones of each of the resistors to form switch-resistor branches. The switch-resistor branches are connected in parallel between first and second nodes. Respective ones of the switches receive control signals to turn them ON, which forms an equivalent resistor having an equivalent resistance. A resistance of the switch is substantially insignificant compared to a resistance of the resistor in each of the switch-resistor branches making the equivalent resistance substantially linear.

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